



PATENT

1996-045 (81841-0138)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Susumu ARIMORI et al.

Serial No: 09/729,332

Filed: December 4, 2000

For: PHOTO-INDUCED ELECTRON
TRANSFER FLUORESCENT SENSOR
MOLECULES

Art Unit: 1641

Examiner: Ghashghaee Fariba

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

06/14/2001 SZEWDIE1 00000052 501314 09729332

01 FC:102 320.00 CH
02 FC:103 378.00 CH

Dear Sir:

Prior to the first Office Action in the present application, please enter and consider the following amendments and remarks:

IN THE SPECIFICATION:

Please replace the text of the last paragraph on page 4 and the first paragraph on page 5 with the following text:

A1
In the above formula, Fl is a fluorophore, N is a nitrogen atom, Bd1 and Bd2 are independently selected binding groups, Sp is an aliphatic spacer, and An is an anchor group for attaching the sensor to solid substrates. $n = 1$ or 2 , $m = 1$ or 2 , and x is an integer. The binding groups are capable of binding an analyte molecule to form a stable 1:1 complex. Examples of binding groups include, but are not limited to, boronic acid, crown ether, and aza-crown ether, such as 1,4,7,10,13-Pentaoxa-16-aza-cyclooctadecane (aza 18-crown-6) and 1,4,7,13-tetraoxa-10-aza-cyclohexadecane (aza 15-crown-5). In a preferred embodiment, the Bd1 is R1-B(OH)₂ and Bd2 is R2-